

AGENCY USE ONLY

Agency Reference #: USACE REF # 2006 00334

Date Received:

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(local govt. or agency)

JOINT AQUATIC RESOURCES PERMIT APPLICATION FORM (JARPA)

(for use in Washington State)

PLEASE TYPE OR PRINT IN BLACK INK.

- ☒ Application for a Fish Habitat Enhancement Project per requirements of RCW 77.55.290. You must submit a copy of this completed JARPA application form and the (Fish Habitat Enhancement JARPA Addition) to your local Government Planning Department and Washington Department of Fish & Wildlife Area Habitat Biologist on the same day.

NOTE: LOCAL GOVERNMENTS – You must submit any comments on these projects to WDFW within 15 working days.

Based on the instructions provided, I am sending copies of this application to the following: *(check all that apply)*

- ☒ Local Government for shoreline: ☒ Substantial Development ☒ Conditional Use ☒ Variance ☒ Exemption ☐ Revision
☒ Floodplain Management ☒ Critical Areas Ordinance
- ☒ Washington Department of Fish and Wildlife for HPA (Submit 3 copies to WDFW Region)
☒ Washington Department of Ecology for 401 Water Quality Certification (to Regional Office-Federal Permit Unit)
☒ Washington Department of Natural Resources for Aquatic Resources Use Authorization Notification
☒ Corps of Engineers for: ☒ Section 404 ☐ Section 10 permit
☐ Coast Guard for: ☐ General Bridge Act Permit ☐ Private Aids to Navigation (for non-bridge projects)
☐ For Department of Transportation projects only: This project will be designed to meet conditions of the most current Ecology/Department of Transportation Water Quality Implementing Agreement

SECTION A - Use for all permits covered by this application. Be sure to ALSO complete Section C (Signature Block) for all permit applications.

1. APPLICANT

National Park Service – Olympic National Park

826 E. Front St., Suite A, Port Angeles, WA 98362

360.565.1320

E-MAIL ADDRESS

brian_winter@nps.gov

HOME PHONE

FAX #

360.565.1325

If an agent is acting for the applicant during the permit process, complete #2. Be sure agent signs Section C (Signature Block) for all permit applications

2. AUTHORIZED AGENT

MAILING ADDRESS

HOME PHONE

FAX #

3. Relationship of applicant to property: ☐ OWNER ☐ PURCHASER ☐ LESSEE ☒ Congressional Authorization

4. Name, address and phone number of property owner(s) if other than applicant: Lower Elwha Klallam Tribe, State of Washington, Clallam County, WA, City of Port Angeles and others (See Attachment #1).

5. Location (street address, including city, county and zip code, where proposed activity exists or will occur)

Elwha River corridor from the mouth to Lake Mills delta (river mile 0 to 16). See Attachment #1 Ownership List
 Local government with jurisdiction (city or county) City of Port Angeles, Clallam County, LEKT

Waterbody you are working in Elwha River

Tributary of

WRIA #

Is this waterbody on the 303(d) List** YES ☒ NO ☐

Straight of Juan de Fuca

18

If YES, what parameter(s)? PCB's 1254 & 1260

Shoreline designation

Conservancy

**For 303d List,

<http://www.ecy.wa.gov/programs/wq/303d/index.html>

Zoning designation

R1 and RCC5

¼ Section

Section

Township

Range

Government Lot

DNR stream type if known

F

Latitude and Longitude: See Individual Project Data

Tax Parcel Number

See Ownership List

6. Describe the current use of the property, and structures existing on the property. Have you completed any portion of the proposed activity on this property? ☐ YES ☒ NO
For any portion of the proposed activity already completed on this property, indicate month and year of completion.
Current use of the properties include two dams producing hydropower, several private residences, Lower Elwha Klallam Tribe Reservation, flood control levees, Washing State salmon rearing facilities, and an existing M&I diversion and Ranney collector. See Individual Project Data for site specific project descriptions and additional information.

Is the property agricultural land? ☐ YES ☒ NO Are you a USDA program participant? ☐ YES ☒ NO

7a. Describe the proposed work that needs aquatic permits: Complete plans and specifications should be provided for all work waterward of the ordinary high water mark or line, including types of equipment to be used. If applying for a shoreline permit, describe all work within and beyond 200 feet of the ordinary high water mark. If you have provided attached materials to describe your project, you still must summarize the proposed work here. Attach a separate sheet if additional space is needed.
Aquatic permits are needed for the removal of Elwha and Glines Canyon Dams and the resultant release of approximately 8.5 million cubic yards of accumulated river sediments; removal of an existing rock diversion dam; construction of a new fish friendly diversion and temporary diversion channel; flood protection for public and private facilities due to anticipated increase in water surface elevations; and temporary intake pumps and permanent outfalls for a new water treatment plant. See Individual Projects Data.
PREPARATION OF DRAWINGS: See sample drawings and guidance for completing the drawings. **ONE SET OF ORIGINAL OR GOOD QUALITY REPRODUCIBLE DRAWINGS MUST BE ATTACHED.** NOTE: Applicants are encouraged to submit photographs of the project site, but these DO NOT substitute for drawings. **THE CORPS OF ENGINEERS AND COAST GUARD REQUIRE DRAWINGS ON 8-1/2 X 11 INCH SHEETS. LARGER DRAWINGS MAY BE REQUIRED BY OTHER AGENCIES.**

7b. Describe the purpose of the proposed work and why you want or need to perform it at the site. Please explain any specific needs that have influenced the design.
The Elwha River ecosystem and native anadromous fisheries are severely degraded as a result of two hydroelectric dams and their reservoirs built in the early 1900's. Congress has mandated the full restoration of this ecosystem and its native anadromous fisheries through the Elwha River Ecosystem and Fisheries Restoration Act (P.L. 102-495). The Department of Interior proposes to accomplish this purpose and to fulfill the congressional mandate of returning the Elwha River and ecosystem to its natural, self regulating state by removing Elwha and Glines Canyon Dams. See "Purpose and Need" attachment for additional information.

7c. Describe the potential impacts to characteristic uses of the water body. These uses may include fish and aquatic life, water quality, water supply, recreation and aesthetics. Identify proposed actions to avoid, minimize, and mitigate detrimental impacts and provide proper protection of fish and aquatic life. Identify which guidance documents you have used. Attach a separate sheet if additional space is needed.
The Department of Interior has recognized that several beneficial and adverse impacts will occur during and after dam removal. Most of the impacts will be beneficial and fully support the purpose of this restoration project. Adverse impacts to water quality and quantity; flooding; groundwater levels; and short term impacts to fisheries will be mitigated as described in the attached project specific documentation.

7d. For in water construction work, will your project be in compliance with the State of Washington water quality standards for turbidity WAC 173.201A-110? ☒ YES ☐ NO (See USEFUL DEFINITIONS AND INSTRUCTIONS)

8. Will the project be constructed in stages? YES ☒ NO ☐
Proposed starting date: 8/2006
Estimated duration of activity: 7 years

9. Check if any temporary or permanent structures will be placed:
☒ Waterward of the ordinary high water mark or line for fresh or tidal waters AND/OR
☒ Waterward of the mean higher high water for tidal waters?

10. Will fill material (rock, fill, bulkhead, or other material) be placed:
☒ Waterward of the ordinary high water mark or line for fresh waters?
If YES, VOLUME (cubic yards) Approx. 8 Million / AREA Approx. 13 (acres) plus 16 miles of river.
☐ Waterward of the mean higher high water for tidal waters?
If YES, VOLUME (cubic yards) / AREA (acres)

11. Will material be placed in wetlands? ☒ YES ☐ NO
If YES:
A. Impacted area in acres: Approx. 2 acres from construction and potential to cause filling on 223 acres from sediment erosion
B. Has a delineation been completed? If YES, please submit with application. ☒ YES ☐ NO
C. Has a wetland report been prepared? If YES, please submit with application ☒ YES ☐ NO
D. Type and composition of fill material (e.g., sand, etc.) Grade materials and Riprap
E. Material source: commercial source
F. List all soil series (type of soil) located at the project site, and indicate if they are on the county's list of hydric soils. Soils information can be obtained from the natural Resources Conservation Service (NRCS). Carlsborg/Puget/Dungeness Series
G. WILL PROPOSED ACTIVITY CAUSE FLOODING OR DRAINING OF WETLANDS? ☒ YES ☐ NO
If YES, IMPACTED AREA IS 230 ACRES OF DRAINED Lake fringe WETLANDS
NOTE: If your project will impact greater than ½ of an acre of wetland, submit a mitigation plan to the Corps and Ecology for approval along with the JARPA form.
NOTE: A 401 water quality certification will be required from Ecology in addition to an approved mitigation plan if your project impacts wetlands that are: a) greater than ½ acre in size, or b) tidal wetlands or wetlands adjacent to tidal water. Please submit the JARPA form and mitigation plan to Ecology for an individual 401 certification if a) or b) applies.

12. Stormwater Compliance for Nationwide Permits Only: This project is (or will be) designed to meet ecology's most current stormwater manual, or an Ecology approved local stormwater manual. ☐ YES ☐ NO
If YES – Which manual will your project be designed to meet?
If NO – For clean water act Section 401 and 404 permits only – Please submit to Ecology for approval, along with this JARPA application, documentation that demonstrates the stormwater runoff from your project or activity will comply with the water quality standards, WAC 173.201(A)

13. Will excavation or dredging be required in water or wetlands? ☒ YES ☐ NO
If YES:
A. Volume: 9100 (cubic yards) /area 2.5 (acre)
B. Composition of material to be removed: River alluvium
C. Disposal site for excavated material: Either reused or disposed of at an approved upland site
D. Method of dredging: Standard hydraulic equipment

14. Has the State Environmental Policy Act (SEPA) been completed ☒ YES ☐ NO
SEPA Lead Agency: Clallam Co., WA is/has preparing documentation adopting existing NEPA compliance.
SEPA Decision: DNS, MDNS, EIS, Adoption, Exemption Adoption Decision Date (end of comment period) 4/15/06
SUBMIT A COPY OF YOUR SEPA DECISION LETTER TO WDFW AS REQUIRED FOR A COMPLETE APPLICATION

15. List other Applications, approvals or certifications from other federal, state or local agencies for any structures, construction discharges or other activities described in the application (i.e. preliminary plat approval, health district approval, building permit, SEPA review, federal energy regulatory commission license (FERC), Forest practices application, etc.). Also, indicate whether work has been completed and indicate all existing work on drawings. NOTE: For use with Corps Nationwide Permits, identify whether your project has or will need an NPDES permit for discharging wastewater and/or stormwater.

TYPE OF APPROVAL	ISSUING AGENCY	IDENTIFICATION NO.	DATE OF APPLICATION	DATE APPROVED	COMPLETED?
FEIS/ROD Elwha River Program.	NPS			2/26/1996	Yes
FEIS/ROD Elwha River Restor.	NPS			12/23/1996	Yes
SEIS/ROD Elwha River Imp.	NPS			10/21/2005	YES
NHPA Sec. 106	ACHP			6/08/1995	Yes

16. Has any agency denied approval for the activity you're applying for or for any activity directly related to the activity described herein?
☐ YES ☒ NO
If YES, explain:

17a. Total cost of project. This means the fair market value of the project, including materials, labor, machine rentals, etc.
\$184,600,000.00

17b. If a project or any portion of a project receives funding from a federal agency, that agency is responsible for ESA consultation. Please indicate if you will receive federal funds and what federal agency is providing those funds. See instructions for information on ESA.*
FEDERAL FUNDING ☒ YES ☐ NO If YES, please list the federal agency. NPS


18. Local government with jurisdiction: Clallam Co., WA

19. For Corps, Coast Guard and DNR permits, provide names, addresses and telephone numbers of adjoining property owners, lessees, etc. **Please note:** Shoreline Management Compliance may require additional notice – consult your local government.

NAME	ADDRESS	PHONE NUMBER
See Ownership List		

SECTION C - This section MUST be completed for any permit covered by this application

20. Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities. I hereby grant to the agencies to which this application is made, the right to enter the above-described location to inspect the proposed, in-progress or completed work. I agree to start work **ONLY** after all necessary permits have been received.

ONP Super. 	DATE 6/5/2006
SIGNATURE OF APPLICANT	
BR LCAO Manager or NCO Construction Engineer	DATE
SIGNATURE OF AUTHORIZED AGENT	

I HEREBY DESIGNATE _____ TO ACT AS MY AGENT IN MATTERS RELATED TO THIS APPLICATION FOR PERMIT(S). I UNDERSTAND THAT IF A FEDERAL PERMIT IS ISSUED, I MUST SIGN THE PERMIT.

SIGNATURE OF APPLICANT	DATE
SIGNATURE OF LANDOWNER (EXCEPT PUBLIC ENTITY LANDOWNERS, E.G. DNR)	

THIS APPLICATION MUST BE SIGNED BY THE APPLICANT AND THE AGENT, IF AN AUTHORIZED AGENT IS DESIGNATED.

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

COMPLETED BY LOCAL OFFICIAL

- A. Nature of the existing shoreline. (Describe type of shoreline, such as marine, stream, lake, lagoon, marsh, bog, swamp, flood plain, floodway, delta; type of beach, such as accretion, erosion, high bank, low bank, or dike; material such as sand, gravel, mud, clay, rock, riprap; and extent and type of bulkheading, if any)
- B. In the event that any of the proposed buildings or structures will exceed a height of thirty-five feet above the average grade level, indicate the approximate location of and number of residential units, existing and potential, that will have an obstructed view:
- C. If the application involves a conditional use or variance, set forth in full that portion of the master program which provides that the proposed use may be a conditional use, or, in the case of a variance, from which the variance is being sought:

Purpose and Need

The Elwha and Glines Canyon Dams:

- block native anadromous fish passage to the majority of the Elwha River and tributaries;
- trap sediments and woody debris which are critical components of anadromous fish habitat and which maintain the Elwha River estuary;
- limit nutrients important to the aquatic and terrestrial food chain of the Elwha River valley;
- raise water temperatures, resulting in higher incidence of diseased or physiologically stressed fish;
- inundate important riverine and terrestrial habitat;
- inundate lands and sites of cultural and religious significance to the Lower Elwha S'Klallam Tribe;
- Glines Canyon Dam is within the boundary of Olympic National Park, but in conflict with park policy to restore fisheries and aquatic habitats to their natural states;
- result in beach erosion on the Elwha Reservation and east to Ediz Hook;
- are inconsistent with the federal trust responsibility to four affected Indian tribes.

These are the specific problems Interior intends to resolve in following congressional mandate to "...fully restore the Elwha River ecosystem and native anadromous fisheries..." consistent with the rights of Indian tribes secured by treaty or other federal law as stated in the Elwha Restoration Act (PL 102-495). Removing both dams will alleviate each of the above conditions, either completely or to a very large degree. Therefore, Interior finds there is a need to accomplish the congressional and agency purpose of full restoration of the Elwha River ecosystem and native anadromous fisheries through its proposed action of removing both the Elwha and Glines Canyon Dams. The specific Department of Interior objectives are:

1. Fully restore all runs of Elwha River native anadromous fish
2. Restore the Elwha River ecosystem

Congress directed Interior to determine the feasibility of dam removal scenarios, protect downstream water quality for municipal and industrial users, and evaluate options for the disposition of acquired lands outside park boundaries. Specific alternatives for dam removal, protecting water quality for municipal and industrial users, and disposition of lands can be found in the *Elwha Report* (NPS 1994). All were considered technically feasible by Interior. The *Elwha River Ecosystem Restoration* FEIS and ROD (1996) evaluated options for restoring the Elwha River ecosystem and native anadromous fisheries and is referred to as the Programmatic FEIS. The subsequent "Record of Decision" selected the removal of both dams as the only option that would accomplish full ecosystem restoration.

The *Elwha River Ecosystem Restoration Implementation* FEIS and ROD (1996) examined two ways of removing the dams, as well as the sediment stored behind them. The Record of Decision selected "river erosion" as the preferred alternative for removing sediment. (The Implementation FEIS included only specific changes to the DEIS, not the entire text of the draft

document. Subsequently, a compilation of the DEIS and FEIS was prepared that includes all the text of the draft, along with changes presented in the FEIS, plus responses to comments and the U.S. Fish and Wildlife Service's "Biological Opinion.")

The impacts of the dams to the entire Elwha River ecosystem are analyzed and documented in both EISs and extensive public involvement accompanied them. Both the Programmatic FEIS and the Implementation FEIS can be found on the Internet at <http://www.nps.gov/olym/elwha/home.htm>.

Work has not yet begun to remove the dams, and in the intervening years the U.S. Department of the Interior (USDI) has continued to study the nature of the sediment behind the dams and other factors that will help quantify downstream impacts from removing the dams. In addition, some changes unrelated to the project have occurred. The combination of these factors meant that some reevaluation of mitigation measures was in order, in particular those measures aimed at protecting either water quality or quantity for downstream users. It was the impacts of these new mitigation measures, as well as updates relevant to decision-making, that were the focus of a Supplemental EIS (SEIS). Technically, this document supplements the *Elwha River Ecosystem Restoration Implementation: Final Environmental Impact Statement*. It was written to stand alone for convenience; as previously mentioned, copies of the SEIS are also available on the Internet.

The SEIS and ROD address several changes related to using treated surface water rather than subsurface supplies; treatment of the city's municipal water supply; keeping the Washington Department of Fish and Wildlife (WDFW) fish-rearing channel open during dam removal; an increase in the number of reservation residents whose septic systems would be affected by the rise in surface water level of the river; the listing of two species of fish as threatened under the Endangered Species Act; and the changing economics of recycling concrete. The SEIS also identified and analyzed the impacts of providing, where appropriate, flood protection for public and private facilities, wastewater mitigation, and hatchery water protection and facility modifications. In addition, more detail is now available on actions that would occur as part of the revegetation of the dewatered reservoir sites.

The FEISs and RODs, Biological Opinions, Sediment Management Plan, (other documents to be added) are incorporated by reference.

Elwha Restoration Project
Project Components' Adjacent Property Owners/Addresses
(components listed north to south along river corridor, then eastward beyond river valley)

Project Component/Affected Parcels	Adjacent/Inclusive Property Owners/Mailing Addresses
Private Levee, W. Side Mouth	
0731 2732 0000 0000 (inclusive)	Malcolm H. Dudley, Trustee The Dudley Living Trust
0731 3422 0025 0000 (adjacent-west)	51 Catalpa Drive Atherton, CA 94027
0731 2732 0100 0000 (inclusive & adjacent-east)	Lower Elwha Klallam Tribe 2851 Lower Elwha Road Port Angeles, WA 98363
Tribal Wastewater Pipeline	
	No longer a project component
Federal Levee Modification (North)	
	Info to be provided by Tribe
New Tribal Fish Hatchery	
	Info to be provided by Tribe
Tribal Wastewater Plant	
	Info to be provided by Tribe
Hatchery Pipeline (on-reservation)/Levee Extension (South)	
	Info to be provided by Tribe
Hatchery Pipeline (off-reservation)	
0730 0314 0050 0000 (inclusive, N & S portions)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 0223 0000 0000 (inclusive, central portion)	Harry L. Lydiard 164 Walker Ranch Road Port Angeles, WA 98363
(adjacent parcels too distant for effect/impact)	

Elwha Water Treatment Plant (EWTP)	
0730 0344 0000 0000 (inclusive)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 0341 0275 0000 (adjacent-north)	John V. Halberg 1507 East Beach Road Port Angeles, WA 98363-7162
0730 0341 0400 0000 (adjacent-north)	WDFW 600 Capitol Way N. MS 43200 Olympia, WA 98501-1091
0730 0341 0175 0000 (adjacent-north)	State of Washington General Administration PO Box 41000 Olympia, WA 98504-1000
Parcels adjacent to south (City of Port Angeles) and west (other side of river) too distant to experience effects/impacts	
Ranney Collector Modifications	
Same properties as for EWTP, above	
EWTP/Ranney/Rearing Channel/Industrial & Tribal Hatchery Pipelines Flood Control	
Same properties as for those components	
Elwha Surface Water Intake (ESWI)	
0730 1011 0000 0000 0730 1014 0100 0000 (inclusive)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 1012 0150 0000 (inclusive)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312
0730 1012 0020 0000 (adjacent-north & northwest)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312
0730 1013 0050 1000/2001 (adjacent-west)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312
0730 1013 0125 0000 (adjacent-southwest)	Rainier Evergreen, Inc. 11221 Pacific Highway South Tacoma, WA 98499-5170

0730 1014 0150 0000 (adjacent-south)	State of Washington General Administration PO Box 41000 Olympia, WA 98504-1000
0730 1014 0000 0000 (adjacent-southeast & east—across river)	Morgan Collins 1407 S. 35 th Place Yakima, WA 98902-4809
Dry Creek Well Field Modifications	
0730 1014 0000 0000 (inclusive)	Morgan Collins 1407 S. 35 th Place Yakima, WA 98902-4809
0730 1014 0100 0000 (adjacent-west)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 1014 0150 0000 (adjacent-west)	State of Washington General Administration PO Box 41000 Olympia, WA 98504-1000
0730 1044 0000 0000 (adjacent-southwest & south)	Joe Sampson ELOFSON??? (address?, Indian exempt land)
0730 1132 0010 1000/2001 (adjacent-southeast)	Walter Forsberg 430 Forsberg Road Port Angeles, WA 98363-9549
0730 1123 0100 0000 (adjacent-east & northeast)	Walter Forsberg 430 Forsberg Road Port Angeles, WA 98363-9549
Dry Creek New Well Field	
Same parcels as for Elwha Surface Water Intake, except field is entirely on Green Crow property and City parcel is adjacent-north.	
Private Residences Protection (Lower reach, four parcels)	
0731 3434 0300 0000 (inclusive)	Michael & Cathrine Brase 1613 NE 189 th St. Shoreline, WA 98155-2321
0730 1014 0000 0000 (inclusive)	Morgan Collins 1407 S. 35 th Place Yakima, WA 98902-4809
0730 1013 0050 1000/2001 (inclusive)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312

0730 1013 0125 0000 (inclusive)	Rainier Evergreen, Inc. 11221 Pacific Highway South Tacoma, WA 98499-5170
Elwha Heights Water System	
0730 0232 0010 1000/2001 (inclusive)	George W. Brittenham 691 Edgewood Lane Port Angeles, WA 98363-8438
0730 0232 9040 1000/2001 (inclusive)	James M. Cloud 742 Edgewood Lane Port Angeles, WA 98363
0730 0232 9030 (vacant) (inclusive)	William K. Cloud 12903 Ivanpah Road Apple Valley, CA 92308
0730 0341 0047 1000/2001 (inclusive)	Robert S. & Phylis A. Coates 845 Edgewood Lane Port Angeles, WA 98363
0730 0232 9010/9020 (inclusive)	Jack M. Kriesel 774 Edgewood Lane Port Angeles, WA 98363
0730 0231 0130 1000/2001 (inclusive)	Harry L. Lydiard 164 Walker Ranch Road Port Angeles, WA 98363
Crown Zee Road Improvements	
0730 1011 0000 0000 (inclusive)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 1012 0150 0000 (adjacent-west, across river)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312
0730 1013 0050 1000/2001 (adjacent-west, across river)	Green Crow Timber LLC PO Box 2439 Port Angeles, WA 98362-0312
0730 1014 0100 0000 (adjacent-south, across river)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 1014 0000 0000 (adjacent-south & southeast)	Morgan Collins 1407 S. 35 th Place Yakima, WA 98902-4809
(adjacent parcels east & north are too distant to experience impacts/effects)	

Elwha Dam Removal	
0730 1512 0000 0000 (inclusive)	U.S. Government 21905 64 th Avenue W. Mountlake Terrace, WA 98043
Private Residences Protection (Middle Reach, eight dwellings)	
0730 2844 0180 0000 (inclusive)	David & Nancy Johnson Trust 74 Olympic Hot Springs Road Port Angeles, WA 98363-0009
0730 2842 9000/9010 (inclusive)	Richard B. Head 4115 96 th Ave. SE Mercer Island, WA 98040-4233
0730 2844 0155 1000/2001 (inclusive)	Lillian E. Watson 430 Olympic Hot Springs Road Port Angeles, WA 98363
0730 2844 0140 0000 0730 2844 0130 1000/2001 (inclusive)	Josephine Pedersen 550 Olympic Hot Springs Road Port Angeles, WA 98363
0730 2844 0120 1000/2001 0730 2844 0110 0000 0730 2844 0102 0000 (inclusive)	Josephine Pedersen (yurt@624 OHS Road) 550 Olympic Hot Springs Road Port Angeles, WA 98363
0730 2844 0450 0000 (inclusive)	Marvin L. Emery 643 Olympic Hot Springs Road Port Angeles, WA 98363
0730 2844 0500 1000/2001 (inclusive)	George Lane & Michael Shaw et ux 1465 Bogachiel Way Forks, WA 98331-9686
0730 3333 0100 0000 (inclusive)	Allan G. & Vernita D. Bird Trust 1930 Olympic Hot Springs Road Port Angeles, WA 98363-9481
Training Dike Modification	
0730 3321 0000 0000 (inclusive) (no dwellings)	James River II, Inc. (Georgia Pacific) Attn: Realty Dept. PO Box 105681 Atlanta, GA 30348
Olympic Hot Springs Road Culvert Replacements	
No parcel #s (inclusive, and all adjacent areas of potential effect/impact)	Olympic National Park 600 E. Park Avenue Port Angeles, WA 98362

Glides Canyon Dam Removal	
No parcel #s (inclusive, and all adjacent areas of potential effect/impact)	Olympic National Park 600 E. Park Avenue Port Angeles, WA 98362
Port Angeles Water Treatment Plant (PAWTP)	
0730 0122 0000 0000 (inclusive)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 0151 0000 0000 0730 0151 0450 0000 0730 0151 0475 0000 0730 0151 0500 0000 0730 0151 0550 0000 0730 0151 0700 0000 0730 0151 0850 0000 (adjacent-west)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0730 0123 0000 1000/2001 (adjacent-west)	Chris Palzer 36256 SE Fish Hatchery Road Fall City, WA 98024-9749
0730 0123 0020 0000 0730 0150 0100 0000 (adjacent-west)	Port of Port Angeles PO Box 1350 Port Angeles, WA 98362
Milwaukee Railroad grade (adjacent-south)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0630 0011 7300 0000 (adjacent-east)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
0630 0011 7200 0000 (adjacent-east) 0630 0011 3100 1000/2001 (adjacent-east & northeast)	Reggie Nason 3228 W. 18 th Street Port Angeles, WA 98363-1012
0731 3634 0000 0000 (adjacent-north) 0731 3633 0170 0000 (adjacent-northwest)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362

NPI Improvements	
0630 0001 4600 0000 (inclusive)	Daishowa America Co. Ltd. (Nippon Paper Industries) 1902 Marine Drive Port Angeles, WA 98363
0630 0000 0000 0000 (adjacent-north)	City of Port Angeles 321 E. 5 th St. Port Angeles, WA 98362
(other adjacent is Strait of Juan de Fuca-west & east) (adjacent parcel south is too distant to experience impacts/effects)	

Elwha Restoration Project
Impacts to Jurisdictional Waters
Dam Removal and Sediment Erosion

Project	Property Owner/Locati on	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Elwha Dam Removal	NPS	Remove dam	Yes – Elwha River	5.5-Kcy			.5				81.82 drain		
Glines Dam Removal	NPS	Remove dam	Elwha River	Unk			.1				47.43 drain		
Sediment Erosion	NPS	Erode lakebed sediments	Elwha River	7.9-Mcy			16 river miles				Part of 222.73 flood/fill		
Vegetative and Fisheries Restoration	NPS/LEKT	Revegetate up to 715 acres in reservoir areas and create fish habitat in the main stem	Lake Aldwell and Lake Mills lakebeds								170 restored		
TOTALS				7.9055 Mcy			.6 16 river miles				352 affected 170 created		

Elwha Restoration Project
Impacts to Jurisdictional Waters
LEKT Projects

Project	Property Owner/Location	Construction Features	Material Placed in Regulated Waters	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
New Tribal Wastewater Treatment Facility	LEKT On Reservation	Waste Water Treatment plant	No										
Tribal Wastewater Pipeline	LEKT On Reservation	Replace existing individual septic systems with community pipeline	No										
New Tribal Fish Hatchery and new pipeline from EWTP to new Hatchery	LEKT/ Reservation	Construct new hatchery to avoid high ground water conditions and new pipeline from EWTP to New Hatchery	Yes – Elwha River and Wetlands	100			0.01					1100	.4
Federal Levee Modification and Levee Extension	RM 0.0 - 1.7 LEKT/ Reservation	Modify existing levee to provide 200 yr level of flood protection	Yes - Wetlands								<1.42	1500	.94
Total				100			.01				<1.42	2600	1.34

Elwha Restoration Project

Impacts to Jurisdictional Waters

Water Quality Mitigation Projects

Project	Property Owner/ Location	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Elwha Surface Water Intake	Existing City Intake Structure in Channel	600 ft constructed riffle and intake; temporary pump diversion intake; temporary coffer dams	Yes – Elwha River, Shoreline Wetlands, Talent Ditch										
Diversion Channel			River	4370	5275		7.7						
U/S Cofferdam			River	1700			.27						
D/S Cofferdam			River, Wetland	605			.18					5700	1.01
Constructed Riffle			River	32740	12250		3.26						
River Intake			River	235	65		<.01						
Intake Access Road			River	2600			.22						
Temp. Diversion Intake and Pump Station			River	1085			<.01						
River Intake Retaining Wall			River	3120	505		<.01						
Intake pipes			River	1085			<.01						
South Waterway			Talent Ditch		109		<.01						

Elwha Restoration Project

Impacts to Jurisdictional Waters

Water Quality Mitigation Projects

Project	Property Owner/ Location	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Diversion Pump Station			Shoreline	2900			<.01						
Fish Return Pipe			River	7305			<.01						
New Overflow Pipe			River	5	25		<.01						
Fish Screen Structure			Shoreline	4840			<.01						
Overflow Channel			Talent Ditch	15	50		<.03						
EWTP	City/WDFW	Water Treatment Plant for Industrial Users and Fisheries	Yes, Elwha River, Shoreline, Talent Ditches, and Wetlands										
Slurry Outfall Structure			River		133	20							
Vortex Weir			Talent Ditch	20	9								
North Overflow Structure			Talent Ditch	900	90								
Industrial Channel Apron Extension			Talent Ditch	48									
Industrial Channel Divider Dam			Talent Ditch	1300									
Wetland Dam and Flow Control Weir			Wetland, Talent Ditch					4	22			1	<0.01
Effluent Outfall Structure			Talent Ditch	224	36								

Elwha Restoration Project
Impacts to Jurisdictional Waters
Water Quality Mitigation Projects

Project	Property Owner/ Location	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Industrial Channel Modification			Talent Ditch	2732	868								
Stormwater Outlet Control Structure			Talent Ditch	192									
Attraction Flow Channel and North Waterway			Wetland, Talent Ditch										
Influent Pump Station			Not in water										
Other Structures			Shoreline										
Ranney Well	City	Modify existing Control Building	Shoreline										
Crown Z Road	County ROW City/State	Upgrade existing road to support heavy equipment	Shoreline										
Port Angeles Water Treatment Plant	City Landfill	New Self-contained treatment plant for Municipal water	No. wetland adjacent to pipeline will be avoided										

**Elwha Restoration Project
Impacts to Jurisdictional Waters
Water Quality Mitigation Projects**

Project	Property Owner/ Location	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Nippon Paper Industries Treatment Plant	Nippon Paper Industries Marine Dr.	Provide existing level water quality treatment and new outfall	Strait of Juan de Fuca			1200 ft pipeline							
Dry Creek Water Association Existing Well Field Modification	Private/County ROW/DCWA easement and existing lease	Protect existing well field in place	Talent Ditch Shoreline			2 Culverts							
Elwha Heights Homeowners' Assoc. water connection to Dry Creek Water Assoc.	County ROW/DCWA & Private easement	Connection to DCWA w/ 6" pipeline	Yes					480			.23		
Total				68021	19830	20	11.74	484	22		.23	5700	1.02

Elwha Restoration Project
Impacts to Jurisdictional Waters
Flood Protection Projects

Project	Property Owner/Locati on	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
County Levee Modification	LEKT/"The Place" Flood Control Zone District RM 0.0 - 0.3	Modify existing to provide current level of flood protection	Yes – Tidal Waters	600	0		.12						
Brase Residence (RM 1.7 Left Bank)	Brase	Provide existing flood protection	Shoreline										
Industrial Pipeline Road Raise	City and Others	Provide 100-yr flood access for pipeline	Wetland					15			.01		
EWTP Flood Protection	County ROW City/State	Construct Levee for 100- yr flood level	Elwha River	1025		870							
Green Crow Residence (RM 3.6 Left Bank)	Green Crow	Provide existing flood protection	Shoreline										

**Elwha Restoration Project
Impacts to Jurisdictional Waters
Flood Protection Projects**

Project	Property Owner/Locati on	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Rainier Residence Protection (RM 3.7 Left Bank)	Rainier	Provide existing flood protection	Shoreline										
Collins Residence Protection (RM 3.7 Right Bank)	Collins	Provide existing flood protection	Shoreline										
Pedersen Residence and Yurt Protection (RM 8.0 & 8.1 Right Bank)	Pedersen Olympic Hot Springs Road	Provide existing flood protection	Shoreline										
Emery Residence Protection (RM 8.15 Right Bank)	Emery Olympic Hot Springs Road	Provide existing flood protection	Shoreline										

Elwha Restoration Project
Impacts to Jurisdictional Waters
Flood Protection Projects

Project	Property Owner/Location	Construction Features	Material Placed in Regulated Waters and/or Shoreline	JARPA Item #10 Fill Below OHWM				JARPA Item #11 Wetlands fill				JARPA Item #13 Wetlands dredging	
				Cubic yards			Acres	Cubic yards			Acres	Cubic yards of excavation	Acres
				Fill	Riprap	Concrete		Fill	Riprap	Concrete			
Shaw Residence Protection (RM 8.3 Right Bank)	Shaw Olympic Hot Springs Road	Provide existing flood protection	Shoreline										
Training Dike Modification (RM 8.4 - 8.5 Right Bank)		Provide existing flood protection	Yes – Wetland					100			0.01		
Bird Residence Protection (RM, 9.6 Right Bank)	Bird Olympic Hot Springs Road	Provide existing flood protection	Yes – Elwha River		420		0.063					800	0.063
TOTALS				1625	420	870	0.203	115			0.02	800	0.063